COURSE DESCRIPTION CARD - SYLLABUS

Course name
Contemporary aviation issues

Course

Field of study
FORMTEXTAerospace Engineering
Area of study (specialization)

Level of study
First-cycle studies
Form of study
full-time

Year/Semester
3/6
Profile of study
general academic
Course offered in

Requirements
compulsory

Number of hours

Lecture
15
Laboratory classes
0
Other (e.g. online)
0
Tutorials
0
Projects/seminars
0

Number of credit points

1

Lecturers

Responsible for the course/lecturer:
dr inż. Marta Galant
email: marta.galant@put.poznan.pl
tel. +4861 665 2252
Wydział Inżynierii Materiałowej i Fizyki Technicznej
ul. Piotrowo 3, 60-965 Poznań

Responsible for the course/lecturer:

Prerequisites

FORMTEXTBasic knowledge in the field of aviation.
He can think analytically and associate cause and effect relationships in the field of aircraft.
Can work in a group and understands the basics of security.

Course objective

1. Understanding the requirements and challenges in aviation of the 21st century.

Course-related learning outcomes

Knowledge

1. has extended knowledge necessary to understand the profiled subjects and specialist knowledge about the construction, operation, air traffic management, safety systems, economic, social and environmental impact in the field of aviation and space

2. has detailed knowledge related to selected issues in the field of manned and unmanned aircraft construction, in the field of on-board equipment, control systems, communication and registration systems, and automation of individual systems

Skills

1.can communicate using various techniques in the professional environment and other environments using the formal notation of construction, technical drawing, concepts and definitions of the scope of the field of study studied

Social competences

1. understands the need for lifelong learning; can inspire and organize the learning process of other people
2.is ready to critically assess the knowledge and content received, recognize the importance of knowledge in solving cognitive and practical problems and consult experts in the event of difficulties with solving the problem on its own
3. is aware of the importance and understands the non-technical aspects and effects of engineering activities, including its impact on the environment, and the related responsibility for decisions made
4. is able to interact and work in a group, assuming various roles in it
5. correctly identifies and resolves dilemmas related to the profession
6. is aware of the social role of a technical university graduate, and especially understands the need to formulate and convey to the society, in particular through the mass media, information and opinions on the achievements of technology and other aspects of engineering activities; makes efforts to provide such information and opinions in a commonly understandable manner

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

FORMTEXTAssessment of knowledge and skills in a written or oral exam based on the explanation of selected issues

Programme content

1. flying ships and rockets
2. classification, competitiveness, security,
3. regulations, tests and certificates,
4. reducing exhaust emissions and noise,
5. increasing airspace capacity.
6. elimination of the human factor

Teaching methods

Informative (conventional) lecture (providing information in a structured way) - may be of a course (introductory) or monographic (specialist) character

Bibliography

Basic

FORMTEXT1. Pilecki S., Lotnictwo i kosmonautyka, WKŁ, Warszawa 1984.
2. Szczeciński S., Ilustrowany leksykon lotniczy. Technika lotnicza, WKŁ, Warszawa 1988

Additional

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1
Classes requiring direct contact with the teacher	15	1
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) [1]	10	1

1 delete or add other activities as appropriate